

WHAT IS CLAIMED IS:

1. A method for identifying on a data medium a sector referenced by binary information consisting of a number of L-bit data words, said method comprising the steps of:
  - 5 providing a data medium; and  
inserting onto the data medium, at each sector, a succession of code words that each corresponds to one of the data words referencing the sector, a first half of the code words being selected from a circular permutation of an MLBS of length  $N=2^L-1$ , and a second half of the code words being the complements of  
10 the first half.
2. An optical disk comprising:
  - a plurality of sectors for storing computer data, each of the sectors being referenced by binary information consisting of a number of L-bit data words; and  
15 a succession of code words that each correspond to one of the data words referencing the sector, a first half of the code words being selected from a circular permutation of an MLBS of length  $N=2^L-1$ , and a second half of the code words being the complements of the first half.